VM5*BF - 1 - 036 - 1 N 00 - A 1 M 3 *

Series
Internal Drain
External Drain

Torque
012 = 0.190 Nm/bar
018 = 0.286 Nm/bar
028 = 0.445 Nm/bar
036 = 0.573 Nm/bar
045 = 0.715 Nm/bar

Type of shaft
1 - Keyed taper (SAE "BB")
2 - Keyed (SAE C - J744)
W - Keyed (ISO G32N)

Rotation
N - bi-directional
R - clockwise
L - counter - clockwise

View from shaft end:
CW rotation A = inlet B = outlet
CCW rotation A = outlet B = inlet

Modifications

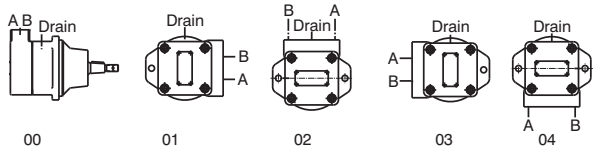
Drain variables
M5BF :
2= 9/16" SAE drain
3= M18 x 0.06 metric drain
M5BF1 :
X= no drain connection

Port variables
M5BF :
0= 3/4" SAE 4 bolts-J518c-UNC thread
M= 3/4" SAE 4 bolts-J518c-metric thread
M5BF1 :
M= 3/4" SAE 4 bolts-J518c-metric thread

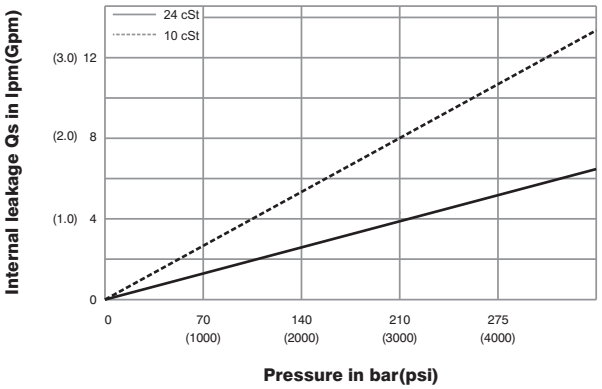
Seal class
1 - S1
5 - S5

Design letter

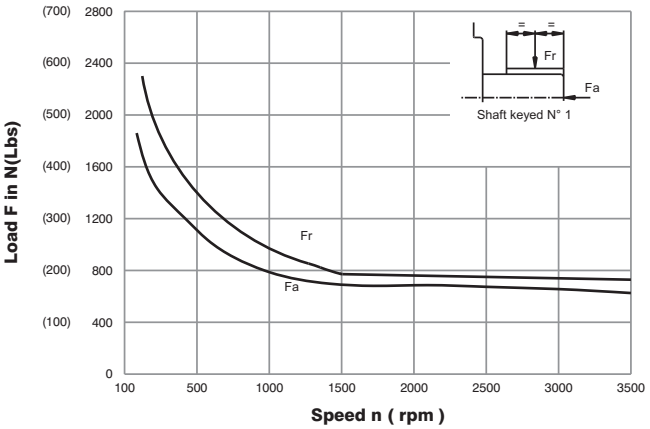
Porting combination
00 - standard



OVERALL LEAKAGE (internal+external)



PERMISSIBLE RADIAL AND AXIAL LOADS

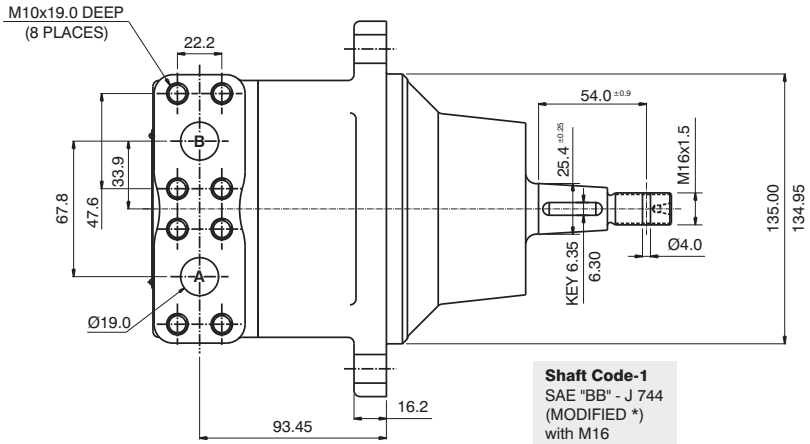


Do not apply Fr and Fa loads simultaneously

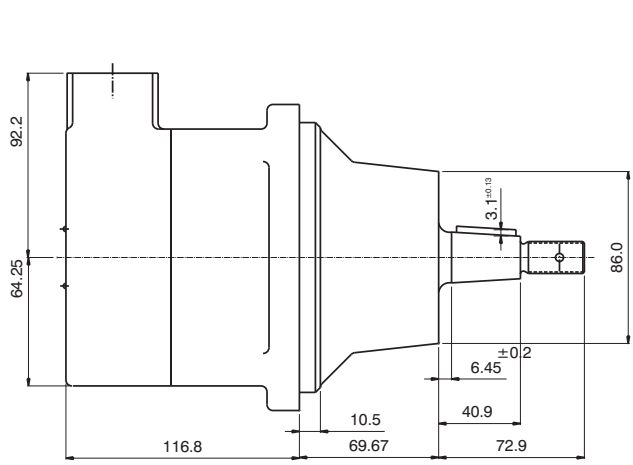
OPERATING CHARACTERISTICS - TYPICAL (24 cSt)

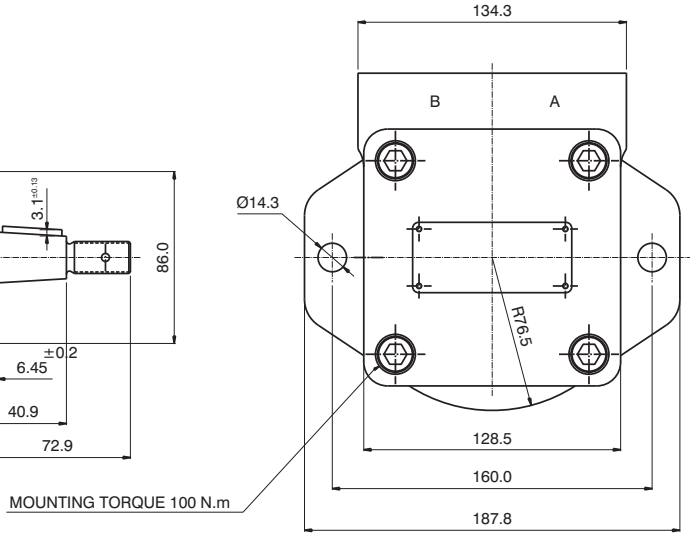
Model	Series	Volumetric Displacement Vi		Input flow at n = 2000 rpm				Torque T at n = 2000 rpm		Power output at n = 2000 rpm	
				Theoretical		at 320 bar (4650 psi)Δp		at 320 bar (4650 psi)Δp		at 320 bar (4650 psi)Δp	
		in^3/rev	cm^3/rev	GPM	l/min	GPM	l/min	in.lbf	Nm	HP	KW
M5BF/ M5BF1	012	0.73	12.0	6.3	23.8	5.2	19.6	447.8	50.5	14.2	10.5
	018	1.10	18.0	9.5	36.0	8.4	31.7	718.6	81.2	22.8	17.0
	028	1.71	28.0	14.7	55.6	13.6	51.4	1169.0	132.0	37.1	27.6
	036	2.20	36.1	19.0	72.0	17.8	67.2	1529.2	172.7	48.5	36.1
	045	2.75	45.1	23.8	90.0	19.6	74.0	1681.4[1)]	190.0[1)]	53.4[1)]	39.8[1)]

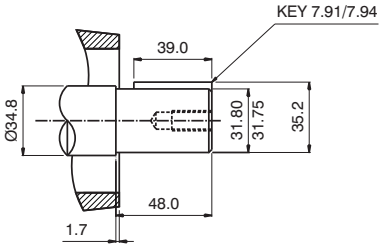
1) 045=280 bar (4060 PSI) MAX.



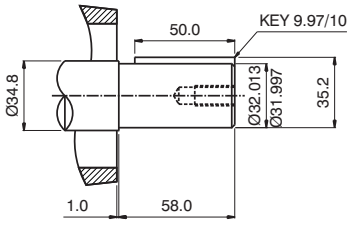
Shaft Code-1
SAE "BB" - J 744
(MODIFIED *)
with M16
TAPER 125:1000







Shaft Code-2
SAE "C" - J 744
WITH M10 - 20 DEEP

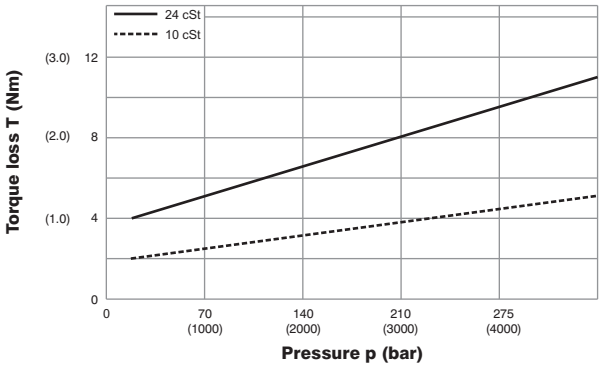


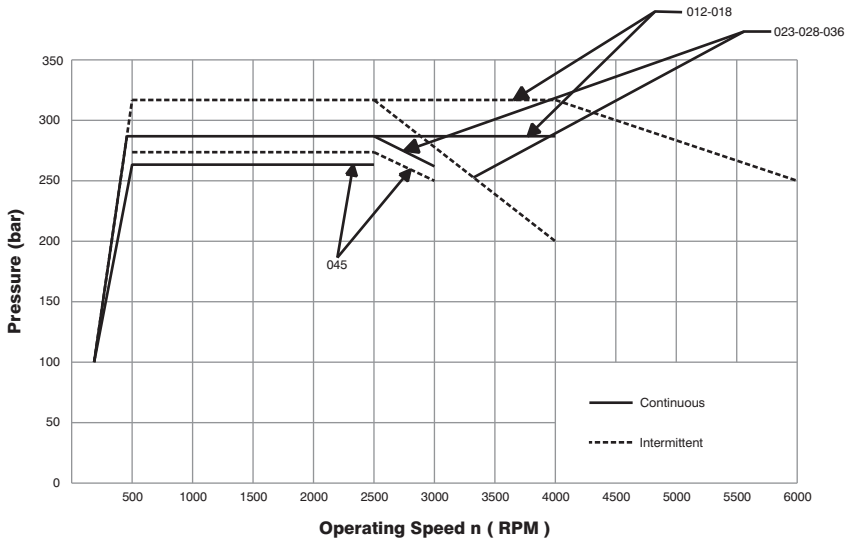
Shaft Code-W
ISO 3019/2 - G32N
WITH M10 - 20 DEEP

Maximum speed & Pressure

Model	Series	Maximum speed rpm		Max. Pressure bar	
		int.	cont.	int.	cont.
M5BF/ M5BF1	012	6000	4000	320	290
	018				
	028	4000	3000		
	036				
	045	3000	2500	280	260

TORQUE LOSS





NOISE LEVEL (TYPICAL)
M5BF - 028